

**ASAS Block II
Initial Operational Test
Information for
Test Support Contractors**

Intelligence Electronic Warfare Test
Directorate

Agenda

**Purpose
System Description
Issues and Criteria
Test Concept
Test Design
Major Variables
Critical Data Matrix
Data Collection
RAM Summary
Event Milestones
Resources**

PURPOS E

**To provide mission insight to
prospective offerors through a
review of the test concept for the
ASAS Block II Initial Operational
Test**

System Description

An intelligence processing system & analysis/integration tool that communicates with battlefield commanders through messages, data transfers, and graphic overlays to provide timely, relevant and actionable information and intelligence to the Warfighting Commander

- ASAS is the Intelligence and Electronic Warfare (IEW) system used by intelligence organizations at all echelons of the Army that provides intelligence functional support of indications and warning, IPB, situation development, targeting, force protection, and battle damage assessment

ASAS Block II: A System of Systems

ACAT II With DOD Oversight -- PEO C3T (MDA)

ASAS Block II IOT Supports:

Analysis and Control Element (ACE)

- Single Source Workstation (SSWS)
- All Source Workstation (ASWS)
- Communications Control Set (CCS)
- Intelligence Shared Server (ISS)
- Remote Intelligence Server (RIS)
- Trusted Workstation (TWS)
- Trusted Gateway System (TGS)
- Web Guard (WG)
- Web Shield (WS)
- Open Source Automated Link Analysis Tool (OSALAT)

Analysis and Control Team (ACT) Enclave

ASAS-Light (ASAS-L)

ASSUMPTION

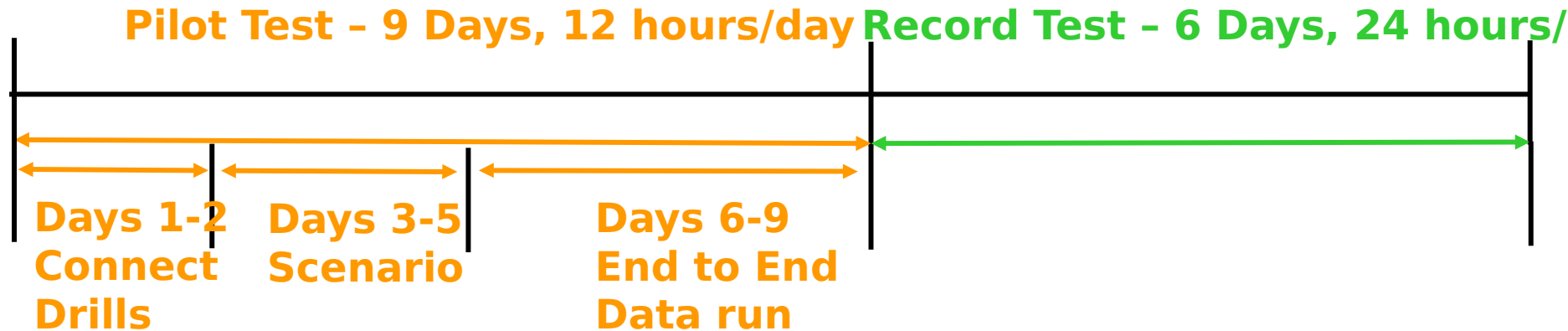
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- Test will be conducted at Fort Hood
- Test will be conducted in October 2004
- Test of all ASAS Block II systems in an operational test required for a Milestone C Full Rate Production decision
- Test architecture consists of the Division TOC, Division ACE, Brigade TOC, Brigade ACT, and Battalion TOC with their associated ABCS systems
- 144 hours of scenario needed to conduct test based upon a 120 hour mission profile as defined in the OMS/MP

Test Concept

- **Scope:**
 - 5 day Pilot Test (36 hour scenario, jump, connectivity drills)
 - 4 day end to end data run/validation
 - 6 day Record test (144 hour scenario)
- Addresses collective (network centric) issues
- Will conduct IW and EW
- Requires DIV CP, DIV ACE, BDE TOC, BDE ACT, BN TOC
 - CORPS White Cell
- **CBS** provides Blue Force SIM/STIM wrap around
 - IMASE provides ISR sim/stim feed
- CPs (D-Main, Bde, Bn TOCs) move IAW OMS/MP

Test Timeline



- Intel staff, operators, operations and maintenance personnel
- 36 Hour IMASE driven pilot test
 - Connectivity Drills, Split-based ops, Data Requirements/Verification
- Road to war build up
 - Mission Planning, system/db prep
 - Data collection and verification
- Intel staff, operators, operations and maintenance personnel
- 144 Hour IMASE driven record test
 - Connectivity, Split-based ops, Data Requirements/Verification
- Operational Test of Block II ASAS
 - Assessment of Block II ASAS under operational field conditions

Schedule (Draft)

| T | T+1 | T+2 | T+3 | T+4 | T+5 |
|---|---|---|--|---|---|
| <ul style="list-style-type: none"> • TOC Initialization • Comms / interface • Message processing • ISR Management • All Source Analysis • SITDEV • TGT DEV • SIGINT • MASINT • HUMINT • IMINT • Maintain DB • IW • EW | <ul style="list-style-type: none"> • NBC-MOPP IV (BCT) • BCT TOC Moves • Comms / interface • Message processing • ISR Management • All Source Analysis • SITDEV • TGT DEV • SIGINT • MASINT • HUMINT • IMINT • Maintain DB • IW • EW | <ul style="list-style-type: none"> • DTOC Moves • BN TOC Moves • Comms / interface • Message processing • ISR Management • All Source Analysis • SITDEV • TGT DEV • SIGINT • MASINT • HUMINT • IMINT • Maintain DB • IW • EW | <ul style="list-style-type: none"> • NBC-MOPP IV (DTOC) • BCT TOC Moves • Comms / interface • Message processing • ISR Management • All Source Analysis • SITDEV • TGT DEV • SIGINT • MASINT • HUMINT • IMINT • Maintain DB • IW • EW | <ul style="list-style-type: none"> • BN TOC Moves • Comms / interface • Message processing • ISR Management • All Source Analysis • SITDEV • TGT DEV • SIGINT • MASINT • HUMINT • IMINT • Maintain DB • IW • EW | <ul style="list-style-type: none"> • NBC-MOPP IV (BN TOC) • Comms / interface • Message processing • ISR Management • All Source Analysis • SITDEV • TGT DEV • SIGINT • MASINT • HUMINT • IMINT • Maintain DB • IW • EW |

TOC Movement Requirements

| 6-Day Scenario (144 hours) | |
|---|-------------|
| Wartime Conditions for Division | |
| Mission Tasks | MAIN |
| Total Displacement Time (hrs) | 8.5 |
| - Total #Moves | 1 |
| - Displacement Time (hrs) | 8.5 |
| Wartime Conditions for Brigade | |
| Mission Tasks | MAIN |
| Total Displacement Time (hrs) | 15 |
| - Total #Moves | 2 |
| - Displacement Time (hrs) | 7.5 |
| Wartime Conditions for Battalion | |
| Mission Tasks | MAIN |
| Total Displacement Time (hrs) | 12 |
| - Total #Moves | 2 |
| - Displacement Time (hrs) | 6 |

Information Warfare (IW)

- IW events conducted by OTC IEWTD
- Events based on both SEP and external requirements (DOTE / DUSA OR)
- IEWTD will conduct IW as hostile outsider and trusted insider
- IEWTD permitted to exploit vulnerabilities detected at the discretion of the Test Officer

EW Plan

- EW threat, integrated into OPFOR effort
 - Primary targets will be TOCs at brigade and above levels, dispersed at doctrinal distances
- Details to be developed

Data Collection

- Subjective data collected through direct interaction with unit personnel at AARs and from post-test surveys and interviews
- Instrumentation data collection focus is on system's ability to:
 - Support ISR operations
 - Disseminate intelligence
 - Interoperate with other ABCS
- Manual data collection focus is on:
 - Reliability & Maintainability
 - System Performance
 - Training
 - MANPRINT

ASAS DC Requirements

| | Data Collection | | |
|---------|------------------------|-------|----|
| | Manual | DCARS | |
| ACE | 12 | 1 | 30 |
| DIV TOC | 2 | 1 | 2 |
| BDE TOC | 2 | 1 | 2 |
| BDE ACT | 1 | 1 | 2 |
| CHIMS | 1 | 0 | 0 |
| BN TOC | 1 | 1 | 1 |
| TOTALS | 19 | 5 | 37 |

Data Collectors (performance and RAM data collection combined)

Test Team Organization

- TOTAL PERSONNEL - 100
 - IEWTD
 - OTC
 - CONTRACTOR
 - TRADOC

Test Team Functions

- Test Officer Cell
- Engineering
 - ORSA
 - Database Management
 - Performance Data Collection
- Simulation
- Threat
 - IW/IA
 - EA
- Instrumentation
 - Video
- RAM
 - Data Collection